	Application No.	Applicant(s)
Notice of Allowability	09/774,723	HIROSE ET AL.
	Examiner	Art Unit
	Vikkram Bali	2623
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOR OF THE	OR REMAINS) CLOSED in to or other appropriate commun GHTS. This application is sul	his application. If not included ication will be mailed in due course. THIS
2. X The allowed claim(s) is/are 3, 7-10, 14, 18-22 (renumbered	as 1-11).	
3. Acknowledgment is made of a claim for foreign priority under a) All b) □ Some* c) □ None of the: 1. Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents.	been received. been received in Application	No
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. tted. Note the attached EXAN	IINER'S AMENDMENT or NOTICE OF
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperso	t be submitted.	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in th	B4(c)) should be written on the se header according to 37 CFR	drawings in the front (not the back) of 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 		
- •		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Info	mal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	3), 7. ☐ Examiner's Ar	ail Date mendment/Comment atement of Reasons for Allowance
		Vikkram Bali Primary Examiner Art Unit: 2623

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DETAILED ACTION

In response to the amendment filled on 8/23/2005, all the amendments to the claims have been entered, and the action follows:

Allowable Subject Matter

- 1. Claims 3, 7-10, 14, 18-22 (renumbered as 1-11) are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Independent claims 7 and 18 and their respective dependent claims are allowed because the prior art alone or in combination with fails to disclose or suggest a method for evaluating polishing pad surface condition that includes imaging illuminated area by an optical imaging unit and obtaining an image of polishing pad surface, evaluating deterioration of polishing pad surface by processing surface image to convert surface image into a bi-level image, and by then using an area ratio of bi-level image to evaluate the deterioration of polishing pad surface, in combination with other limitations of the claim.

Independent claims 9 and 20 and their respective dependent claims are allowed because the prior art alone or in combination with fails to disclose or suggest a method for evaluating polishing pad surface condition that includes imaging illuminated area by an optical imaging unit and obtaining an image of

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polishing pad surface, evaluating deterioration of polishing pad surface by processing surface image, detecting fluorescence generated by polishing pad due to said illumination, further evaluating deterioration of polishing pad surface based on an intensity and signal of detected fluorescence, outputting results from evaluation based on the intensity signal, in combination with other limitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 571.272.7415. The examiner can normally be reached on 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571.272.7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vikkram Bali /// Primary Examine

Art Unit 2623

vb Ostobo

October 13, 2005